

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P302501

Luminaire Tested: **FSP-14-42-35-CA125**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P302501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-14-42-35-CA125
Description: 1x4 Fail Safe Flat Panel Clear Acrylic Lens .125"
Light Source: (238) 3500 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment:

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
AS-5443-2	Good	REFLECTOR
AS-5443-3	Good	DRIVER
AS-5443-4	Good	UPPER MODULE
AS-5443-5	Good	LENS
AS-5443-6	Good	DRIVER 2
AS-5443-7	Good	TRIM RING

Summary

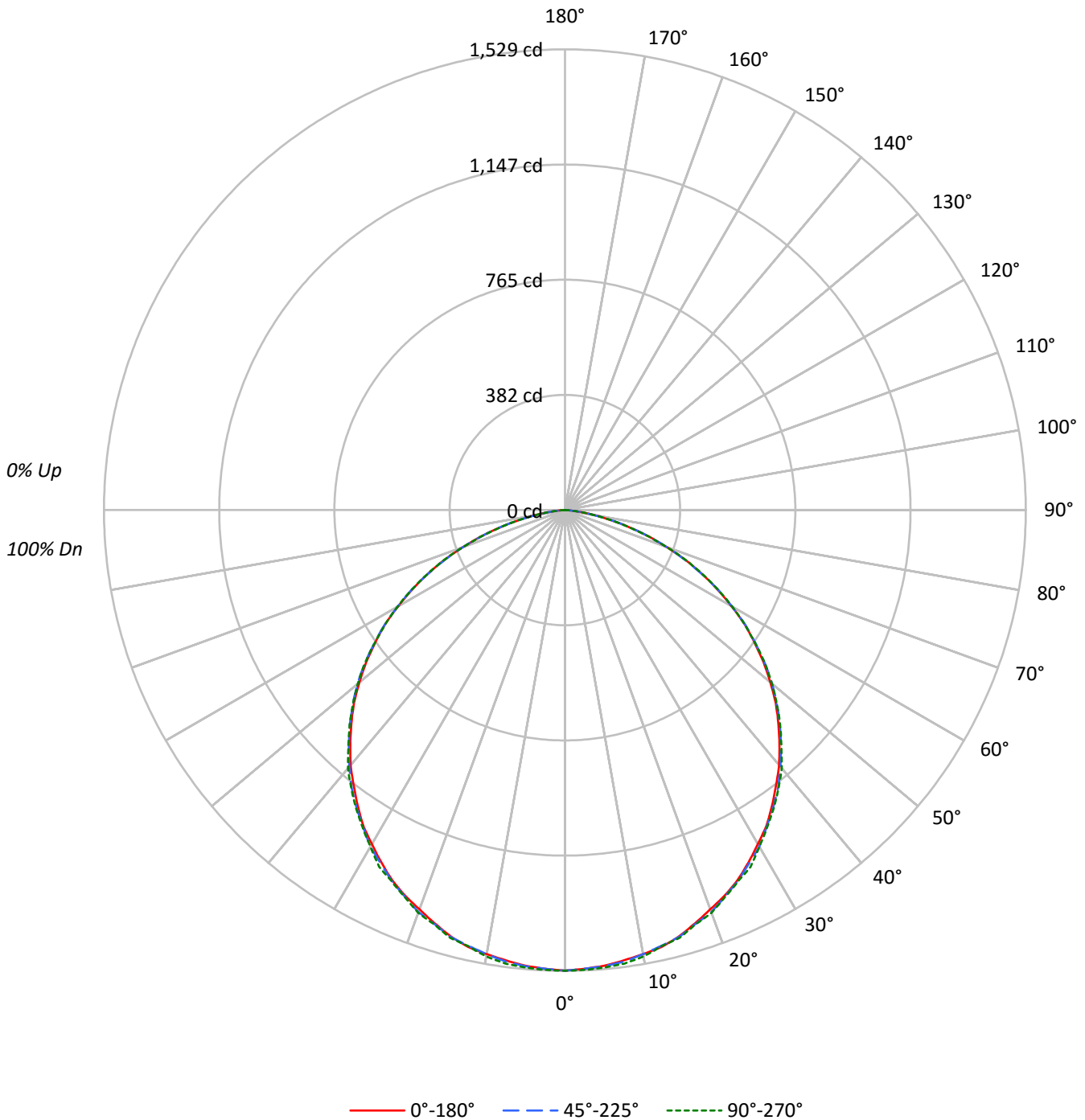
Lumens per Lamp: N/A
Luminaire Lumens: 4177.6 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P302501
CATALOG NUMBER: FSP-14-42-35-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P302501

CATALOG NUMBER: FSP-14-42-35-CA125

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4113	4113	4113
5°	4100	4103	4115
10°	4088	4088	4110
15°	4080	4084	4095
20°	4038	4065	4073
25°	4024	4032	4036
30°	3978	4008	4008
35°	3937	3959	3968
40°	3883	3908	3932
45°	3812	3838	3844
50°	3725	3760	3754
55°	3605	3624	3618
60°	3438	3445	3453
65°	3198	3189	3207
70°	2825	2835	2835
75°	2313	2327	2299
80°	1650	1607	1607
85°	760	760	716



TEST NUMBER: P302501
 CATALOG NUMBER: FSP-14-42-35-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	3.5
10°-20°	413.4	9.9
20°-30°	625.8	15.0
30°-40°	753.6	18.0
40°-50°	777.3	18.6
50°-60°	690.0	16.5
60°-70°	496.2	11.9
70°-80°	238.8	5.7
80°-90°	38.0	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<hr/>		
0°-30°	1183.7	28.3
0°-40°	1937.3	46.4
0°-60°	3404.7	81.5
0°-90°	4177.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4177.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1529	1529	1529	1529	1529	
5°	1518	1522	1519	1518	1523	144
15°	1464	1469	1466	1463	1470	413
25°	1355	1359	1358	1359	1359	624
35°	1198	1201	1205	1208	1208	749
45°	1002	1009	1009	1010	1010	773
55°	768	777	772	779	771	687
65°	502	502	501	502	504	496
75°	222	225	224	221	221	239
85°	25	25	25	23	23	39
90°	0	0	0	0	0	



TEST NUMBER: P302501

CATALOG NUMBER: FSP-14-42-35-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1528.6	1528.6	1528.6	1528.6	1528.6
2.5°	1523.2	1528.6	1523.2	1521.8	1527.3
5°	1517.7	1521.8	1519.1	1517.7	1523.2
7.5°	1506.8	1513.6	1510.9	1509.5	1517.7
10°	1495.9	1501.3	1495.9	1500.0	1504.1
12.5°	1485.0	1489.1	1480.9	1486.3	1482.2
15°	1464.5	1468.6	1465.9	1463.1	1470.0
17.5°	1437.2	1444.0	1439.9	1444.0	1441.3
20°	1409.9	1415.4	1419.5	1416.7	1422.2
22.5°	1385.3	1388.1	1388.1	1390.8	1389.4
25°	1355.3	1359.4	1358.0	1359.4	1359.4
27.5°	1318.5	1321.2	1322.5	1325.3	1334.8
30°	1280.2	1285.7	1289.8	1291.2	1289.8
32.5°	1243.4	1246.1	1246.1	1251.6	1248.8
35°	1198.3	1201.1	1205.2	1207.9	1207.9
37.5°	1150.6	1154.7	1161.5	1164.2	1164.2
40°	1105.5	1109.6	1112.4	1121.9	1119.2
42.5°	1053.7	1061.9	1060.5	1061.9	1063.2
45°	1001.8	1008.6	1008.6	1010.0	1010.0
47.5°	948.6	954.0	954.0	954.0	954.0
50°	889.9	892.6	898.1	894.0	896.7
52.5°	831.2	836.7	836.7	833.9	836.7
55°	768.4	776.6	772.5	779.3	771.1
57.5°	708.4	709.7	709.7	708.4	707.0
60°	638.8	644.2	640.1	637.4	641.5
62.5°	570.5	573.2	573.2	571.9	573.2
65°	502.3	502.3	500.9	502.3	503.6
67.5°	434.0	434.0	429.9	427.2	435.4
70°	359.0	363.1	360.3	360.3	360.3
72.5°	292.1	289.3	290.7	288.0	289.3
75°	222.5	225.2	223.8	221.1	221.1
77.5°	159.7	163.8	161.1	159.7	161.1
80°	106.5	105.1	103.7	103.7	103.7
82.5°	61.4	58.7	58.7	57.3	57.3
85°	24.6	24.6	24.6	23.2	23.2
87.5°	5.5	5.5	5.5	4.1	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)